Class “A” Reusable Vehicle Extrication Prop

This is a Class “A” reusable vehicle extrication prop designed to offer repeated evolutions to firefighters in basic extrication training and vehicle fires.

Class “A” Reusable Vehicle Extrication Prop

Handling instructions

The car should be chocked for vehicle stabilization. American Fire Training Systems, Inc. strongly suggests that all moving parts of this vehicle remain chocked while being hydraulically or manually manipulated during the evolution.

Beware of certain areas on this prop which can be pinch points that can entangle or crush fingers, hands, feet, etc.

All bending, cut areas, spread and/or crush locations should be centered as best as possible. This will help reduce possible damage to the vehicle’s permanent structure.

As in any emergency vehicle extrication scenario, scene safety is paramount. All instructors, students, observers should be aware of the hazards involved in any vehicle extrication scenario.

Even though the car has safety features, you should always employ your own safety measures to keep everyone safe.

Please follow all NFPA 1401, 1402, and any SOG’s/SOP’s as per Federal, State and Local requirements.

Maintenance

This vehicle needs very little maintenance. When Class “A” evolutions are completed, simply wash and flush-out the interior and hose down the exterior. This will ensure a clean work environment for your next evolution and should cool down stainless steel exterior reducing the potential burn hazards.

Class “A” Reusable Vehicle Extrication Prop

Extrication consumables:

The Class “A” Reusable Vehicle Extrication Prop offers your department the capability for rapid evolutions during your basic vehicle extrication training. There are four consumables you will need to successfully utilize each aspect of the Class “A” Reusable Vehicle Extrication Prop. Each consumable is designed for specific locations on the prop and they are as follows:

Engine compartment hood “V” cut plate: This consumable is mounted by utilizing the fixed bolts and wing nuts.

Cut plate: This consumable is mounted by utilizing the bolts and nuts provided in the following locations: driver/passenger “A” post, gas shock cut, and fender crush.

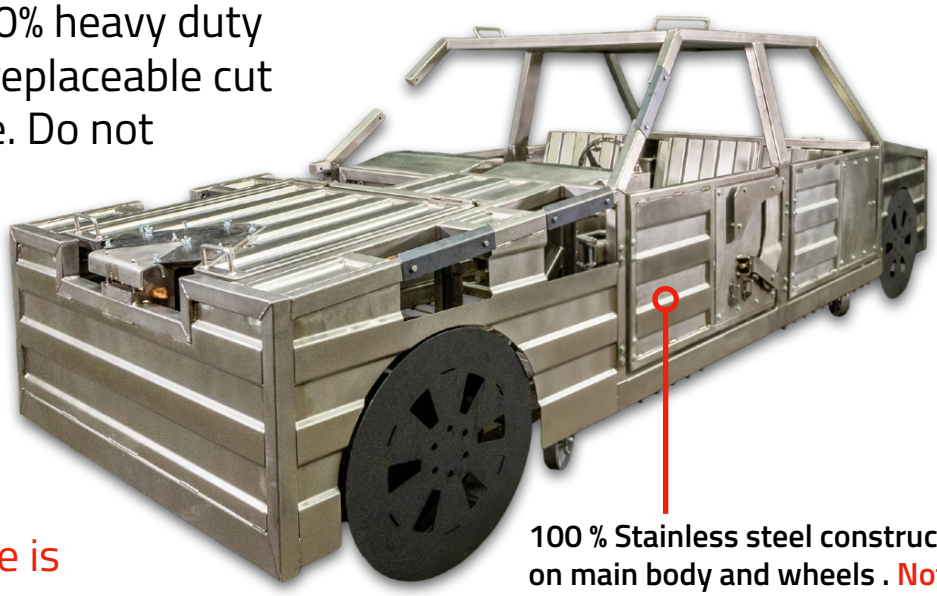
Wood Stake: This consumable is mounted by utilizing the manufactured stake slots located in the following location: engine compartment hood latch, trunk latch, driver/passenger door peals on the outside, door pop slots on the inside of the doors, and dash roll.

3/4” Rebar: This consumable is mounted by utilizing the manufactured slots and bolts in the following location: engine compartment under the hood “V” cut plate, driver/passenger door Nader Pin attack (front/back doors), hinge cuts, gas shock cut, and lower “A” column relief cut.

Class “A” Reusable Vehicle Extrication Prop

Construction

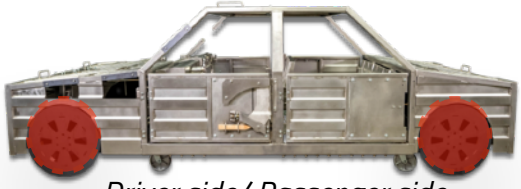
The vehicle is made from 100% heavy duty stainless steel with various replaceable cut props throughout the vehicle. Do not paint or alter any part of this vehicle. **It is **NOT** recommended to overload the vehicle with Class “A” materials. Half pallets (or equal amount of combustibles) and a small amount of wet hay for smoke is recommended.



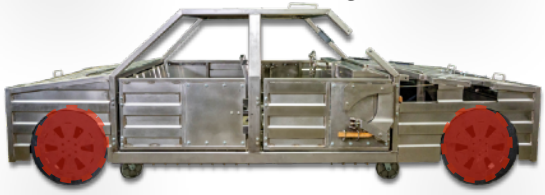
100 % Stainless steel construction on main body and wheels . Note: Prop consumables are not stainless steel.

Class “A” Burn operation location options

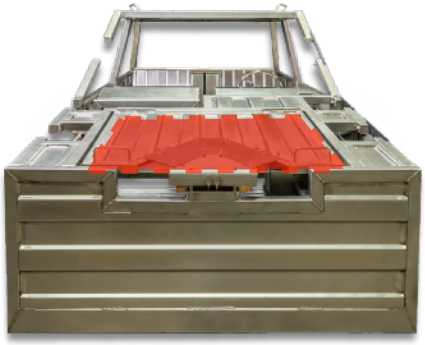
All four wheels



Driver side/ Passenger side

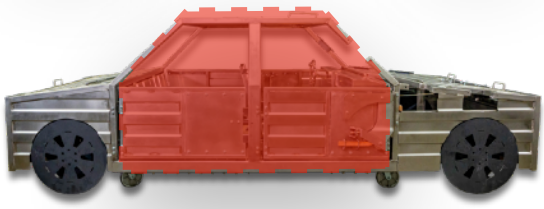


Engine compartment



Trunk

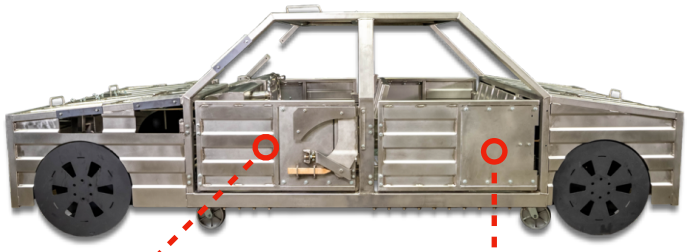
Main cabin



Class “A” Reusable Vehicle Extrication Prop

Driver side doors:

The front and rear driver side doors are set up as a Nader pin attack. The front drivers side door has the full door mechanism allowing for: door peel, Nader pin cut, and door pop. The Driver side rear is set up for Nader pin cut only. *Note: The full door mechanism can be mounted on either driver side front or rear door. ***The full door mechanism can be ordered for both the front and rear door.*



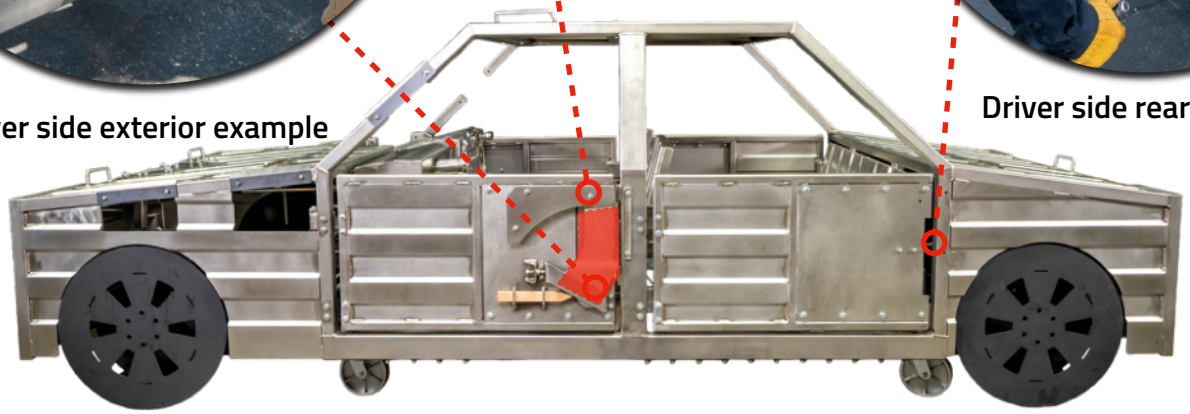
Door peel, Nader pin cut, and door pop.
Consumables: wood stakes and rebar

Door pin cut.
Consumables: rebar

Driver side interior example

Driver side exterior example

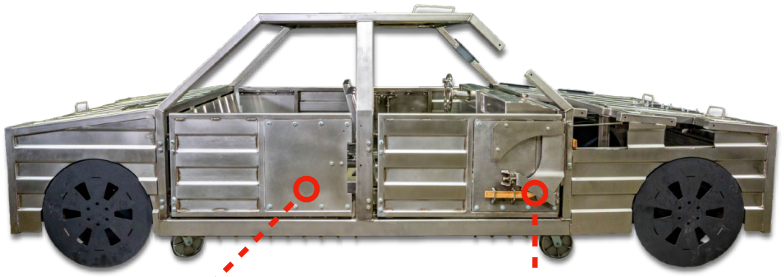
Driver side rear door example



Class “A” Reusable Vehicle Extrication Prop

Passenger Side Doors:

The front and rear passenger side doors are set up as a hinge attack. The front passenger door has the full door mechanism allowing for: door peel, hinge cut, and door pop. *Note: The full door mechanism can be mounted on either passenger side front or rear door.*
****The full door mechanism can be ordered for both the front and rear door.*



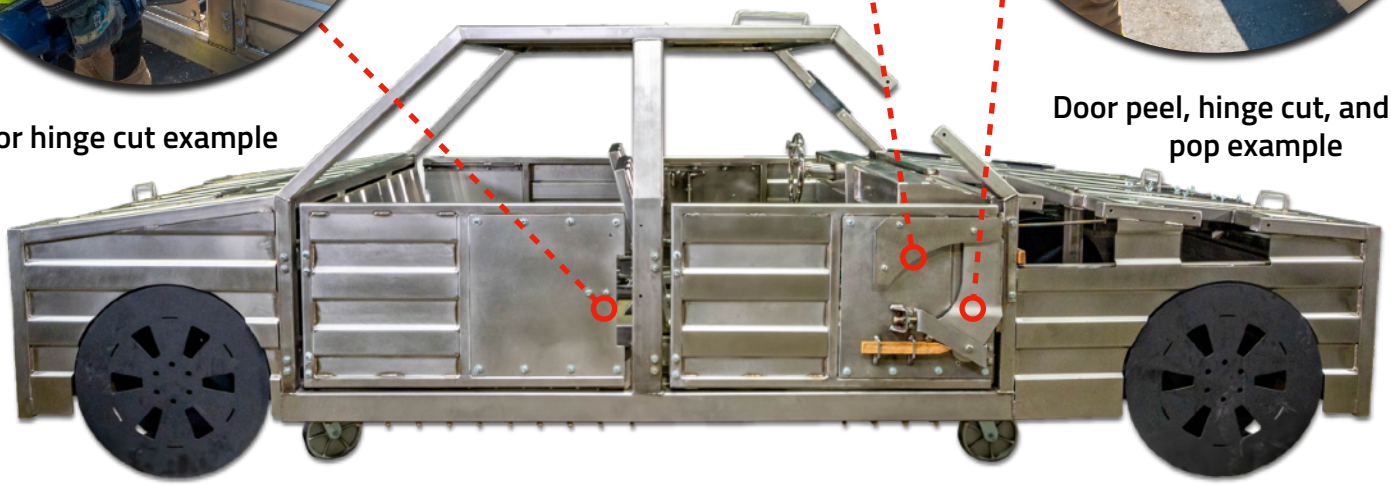
Door hinge cut. *Consumables: rebar*

Door peel, hinge cut, and door pop. *Consumables: wood stakes and rebar*

Passenger side inside example

Door hinge cut example

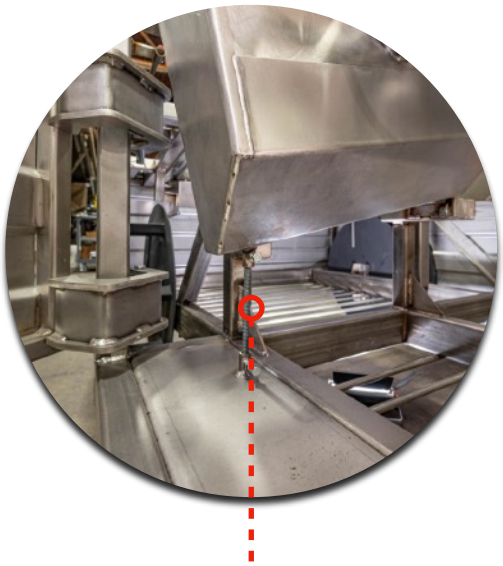
Door peel, hinge cut, and door pop example



Class “A” Reusable Vehicle Extrication Prop

Driver side interior:

Located in the front of the driver side, you have the vertical lift “A” column relief cut and seat adjustments.



Vertical lift “A” column relief cut:
To achieve this, slide back the lock pin under the dash which is in the engine compartment. That will allow the dash to tilt down for the cut/lift. The consumable with this feature is rebar.

Relief cut example

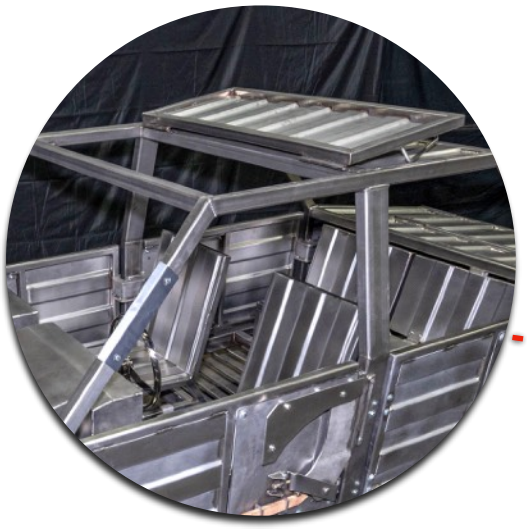
Vertical lift example

Seat Adjustment handle:
With the seat adjustment handle, you can slide the seat forward and back on both front driver and passenger seats.

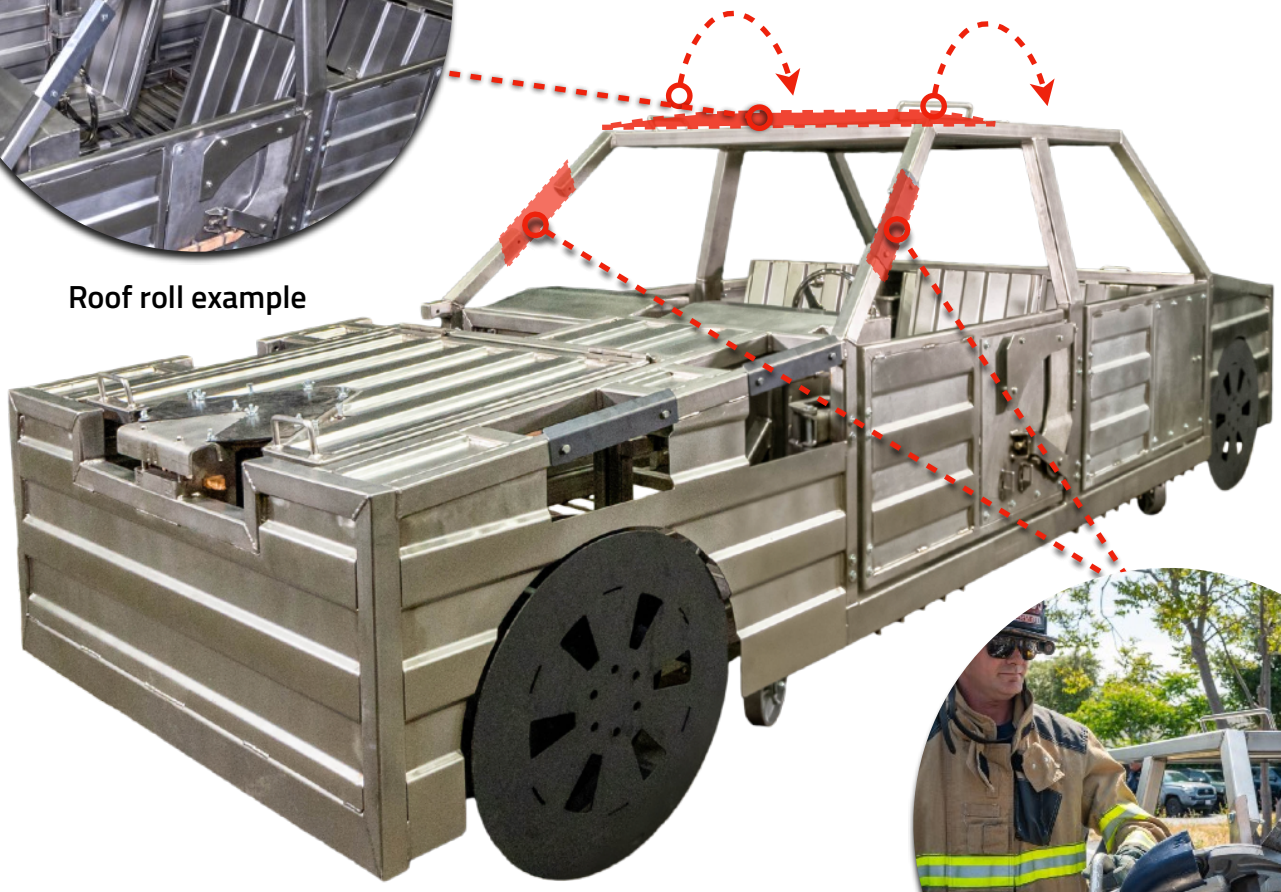
Class “A” Reusable Vehicle Extrication Prop

“A” post cut and hood roll:

The “A” post cut is located on both driver and passenger sides and mounted with provided hardware. The simulated roof roll is secured to the main vehicle at all times. To roll back the roof, two personnel are needed. With one on each side of the vehicle, utilize the handles located on the roof roll section. *Caution: The roof roll section is heavy and can cause harm with pinch points if not handled properly.*



Roof roll example



“A” Post cut example

Class “A” Reusable Vehicle Extrication Prop

Gas shock & fender crush

The gas shock and fender crush are located both on the driver and passenger side of the engine compartment. The Consumables are secured with the hardware and fixed rebar slot holes provided. *The consumables are: cut plates and rebar.*

Fender crush example

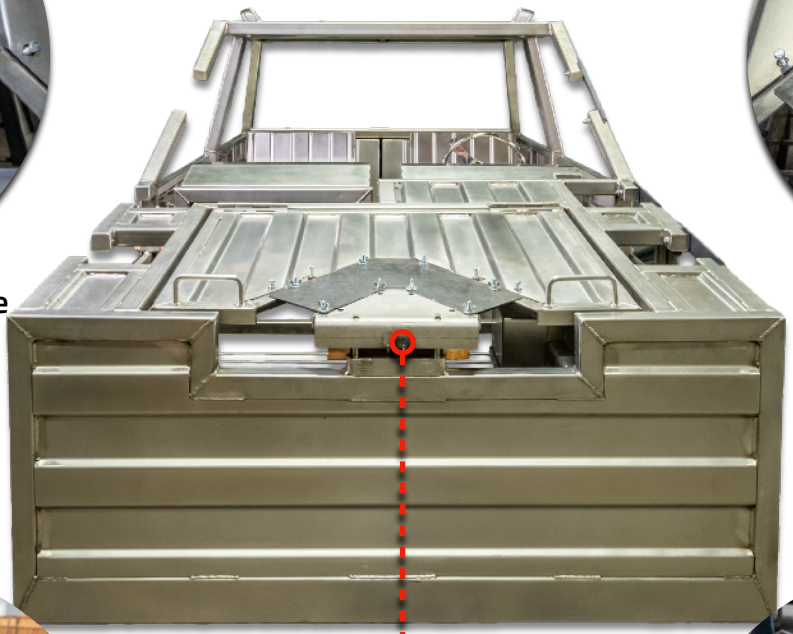
Gas shock cut example

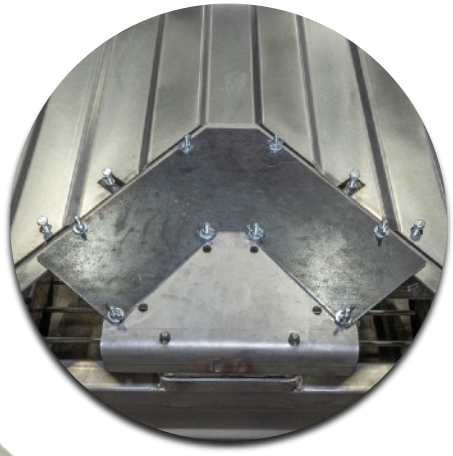
Class “A” Reusable Vehicle Extrication Prop

“V” Hood Cut Plate:

The “V” Hood Cut Plate, with rebar reinforcement is to emulate hood structure supports when cutting in the hood latch location. To achieve this feature, you will utilize the fixed rebar slots and hardware for rebar placement. Then mount the “V” hood cut plate with the fixed bolts and secure with wing nuts. Lastly, secure the hood latch with a wood stake. *Consumables: Wood stake, rebar, and “V” Hood Cut Plate.* *Caution: The hood section is heavy and can cause harm with pinch points if not handled properly.*

Rebar placement example

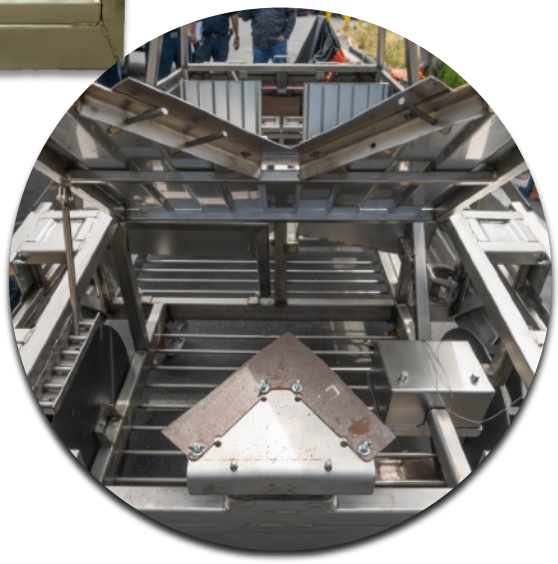




Hood “V” plate placement example

Hood cut example

Hood latch stake placement example



Full hood cut example

Class “A” Reusable Vehicle Extrication Prop

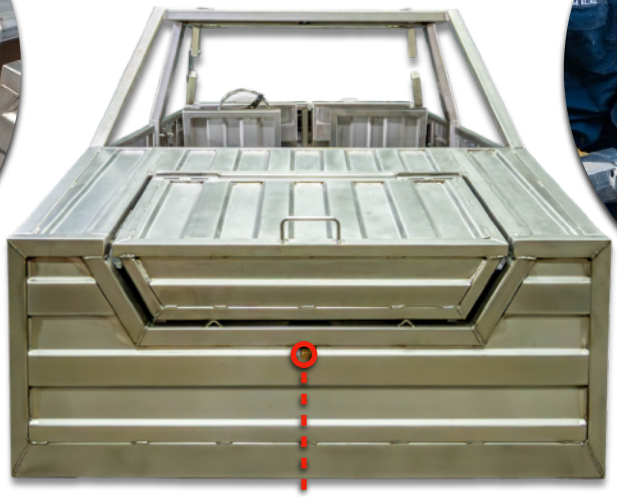
Trunk pop & battery box:

The trunk pop is secured by a single simulated lock (i.e. wood stake). In both the trunk and the engine compartment, there is a battery tray for the provided battery box. This is for mock battery disconnection. The battery box itself is not permanently secured to the vehicle allowing the instructor to place it in different locations.

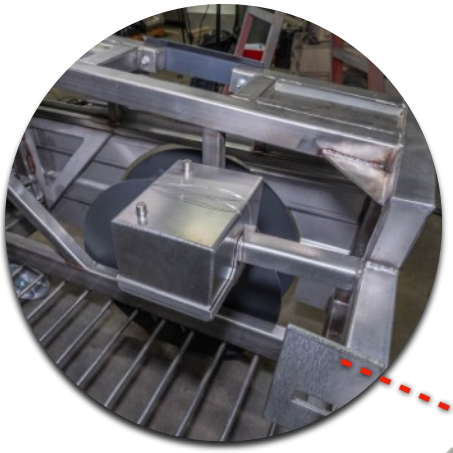
Caution: The trunk section is heavy and could cause harm with pinch points if not handled properly.

Trunk pop example

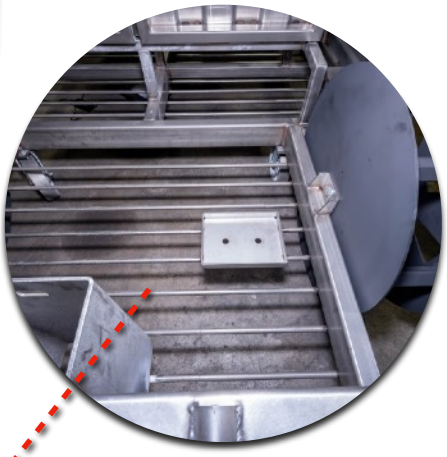
Trunk pop example



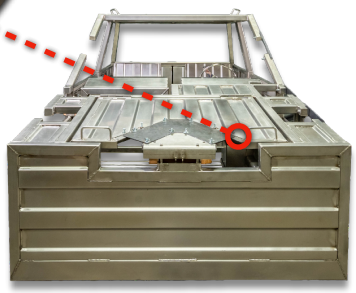
Wood stake lock placement

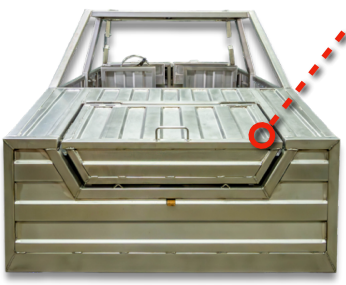


Battery box in engine compartment example



Battery box tray in trunk

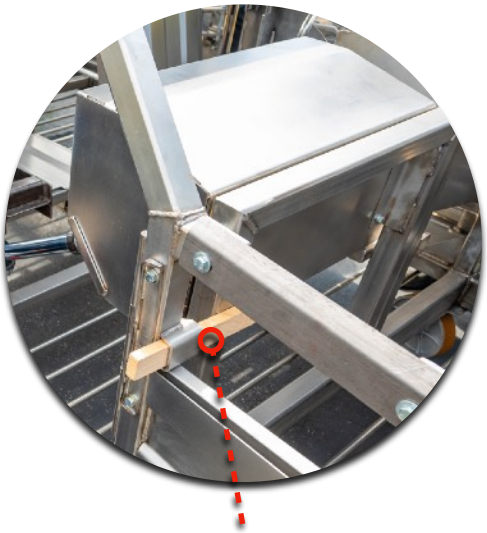




Class “A” Reusable Vehicle Extrication Prop

Passenger side interior:

In the front of the passenger side is the dash roll location. Towards the exterior of the front passenger seat is a hard mounted plate. This plate accepts the foot of a hydraulic rescue ram when preforming a dash roll operation.



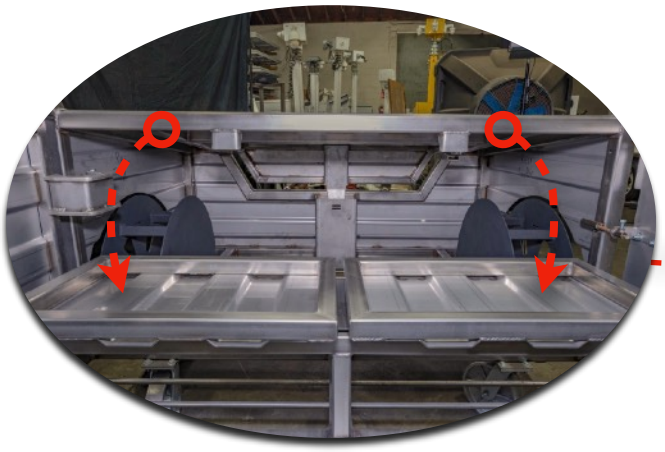
Dash roll:
To achieve this, secure the dash with a wood stake in the designated mounted stake slot. This is located on the “A”post frame below the gas shock cut.

Plate location for ram placement example

Dash roll example

Rear seats:

Both the driver and passenger side rear seats fold down allowing access to the trunk from the main cabin compartment.



Rear seats folded down example